

DWPI

DERWENT-ACC-NO: 1993-155148

DERWENT-WEEK: 199319

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TITLE: Thermomagnetic recording device which retains information stably - has a recording medium contg. rare-earth-transitional metal amorphous alloy magnetic thin film and device for applying auxiliary magnetic field

PATENT-ASSIGNEE: SHARP KK[SHAF]

PRIORITY-DATA: 1982JP-0165880 (September 21, 1982) , 1992JP-0041222 (September 21, 1982)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
JP 05089556 A	April 9, 1993	N/A	004
011/10			G11B

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP05089556A	Div ex	1982JP-0165880	September
21, 1982			
JP05089556A	N/A	1992JP-0041222	September
21, 1982			

INT-CL (IPC): G11B005/02; G11B011/10

ABSTRACTED-PUB-NO: JP05089556A

BASIC-ABSTRACT: Thermomagnetic recording device has a recording medium consisting of a magnetic thin film made of a rare earth-transition metal amorphous alloy(s) and having an easy magnetisation axis perpendicular to the film surface and a device for applying an auxiliary magnetic field to the medium. Information is recorded and deleted by heating the medium with a laser

beam and applying a magnetic field with the field-applying means. The intensity of the magnetic field on the medium is set to be upto one third of the coercive force of the medium.

USE/ADVANTAGE - The device retains information stably, without extinction of information. The setting of the externally applied magnetic field effectively avoids influence of the field upon recorded information.

In an example, using a film of amorphous GdTbFe having a coercive force Hc of 3.8 kOe, it was confirmed that an auxiliary magnetic field of upto 1.3 kOe, measured on the film, never had adverse effects on the film, securing stably residual magnetisation.

CHOSEN-DRAWING: Dwg.1a,b/4

DERWENT-CLASS: L03 T03 W04

CPI-CODES: L03-B05F;

EPI-CODES: T03-D01; T03-D01E; T03-D09; W04-D01A;

TIX:

Thermomagnetic recording device which retains information stably - has a recording medium contg. rare-earth-transitional metal amorphous alloy magnetic thin film and device for applying auxiliary magnetic field

ABTX:

Thermomagnetic recording device has a recording medium consisting of a magnetic thin film made of a rare earth-transition metal amorphous alloy(s) and having an easy magnetisation axis perpendicular to the film surface and a device for applying an auxiliary magnetic field to the medium. Information is recorded and deleted by heating the medium with a laser beam and applying a magnetic

field with the field-applying means. The intensity of the magnetic field on the medium is set to be upto one third of the coercive force of the medium.

TTX:

THERMOMAGNETIC RECORD DEVICE RETAIN INFORMATION STABILISED RECORD MEDIUM
CONTAIN RARE EARTH TRANSITION METAL AMORPHOUS ALLOY MAGNETIC THIN FILM DEVICE
APPLY AUXILIARY MAGNETIC FIELD

DWPI

DERWENT-ACC-NO: 1997-157250

DERWENT-WEEK: 199847

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TITLE: Elastic member for micro-mechanical services such as miniature devices e.g. digital micro-mirror device - has stationary member and moving member connected by elastic member formed by nitride aluminium and non-aluminium alloys

INVENTOR: KNIPE, R L; ORENT, T W ; TREGILGAS, J H ; YOSHIHARA, H

PATENT-ASSIGNEE: TREGILGAS J H[TREGI], TEXAS INSTR INC[TEXI]

PRIORITY-DATA: 1995US-0003139 (September 1, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
TW 336281 A	July 11, 1998	N/A	000 G02B
026/08			
EP 762176 A2	March 12, 1997	E	009 G02B
026/08			
JP 09105874 A	April 22, 1997	N/A	008 G02B
026/08			
CA 2184529 A	March 2, 1997	N/A	000 H01L
021/64			
KR 97018131 A	April 30, 1997	N/A	000 H01L
021/30			

DESIGNATED-STATES: DE FR GB IT NL

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
TW 336281A	N/A	1996TW-0112726	October 18,
1996			
EP 762176A2	N/A	1996EP-0114018	September 2,
1996			
JP09105874A	N/A	1996JP-0232118	September 2,
1996			
CA 2184529A	N/A	1996CA-2184529	August 30,
1996			
KR97018131A	N/A	1996KR-0037798	September 2,
1996			

INT-CL (IPC): C23C014/34; G02B026/08 ; G02B027/00 ; H01L021/30 ; H01L021/64

ABSTRACTED-PUB-NO: EP 762176A

BASIC-ABSTRACT: The device comprises member constituted by one or more electrically conductive material which is an amorphous alloy contg. eve or impurities.

Repeated and frequent movement of moving member, the elastic member (24) can become permanently flexed or deformed, resulting in poor operation of device. The metal film from which the elastic member is formed could be nitrided aluminium and non-aluminium alloys, which have high tensile strength and form smooth films.

ADVANTAGE - Provides elastic member with isotropic elastic properties and high tensile strength.

CHOSEN-DRAWING: Dwg.3f/6

DERWENT-CLASS: P81 U12 V06 V07

EPI-CODES: U12-B03F; V06-M06G; V07-K01A2; V07-K05;

TIX:

Elastic member for micro-mechanical services such as miniature devices e.g.

digital micro-mirror device - has stationary member and moving member
connected
by elastic member formed by nitride aluminium and non-aluminium alloys

ABTX:

The device comprises member constituted by one or more electrically conductive material which is an amorphous alloy contg. eve or impurities.

ABTX:

Repeated and frequent movement of moving member, the elastic member (24) can become permanently flexed or deformed, resulting in poor operation of device. The metal film from which the elastic member is formed could be nitrided aluminium and non-aluminium alloys, which have high tensile strength and form smooth films.

TTX:

ELASTIC MEMBER MICRO MECHANICAL SERVICE MINIATURE DEVICE DIGITAL MICRO MIRROR
DEVICE STATIONARY MEMBER MOVE MEMBER CONNECT ELASTIC MEMBER FORMING NITRIDE
ALUMINIUM NON ALUMINIUM ALLOY

EPAB

CLIPPEDIMAGE= EP000762176A2

PUB-NO: EP000762176A2

DOCUMENT-IDENTIFIER: EP 762176 A2

TITLE: Improvements in or relating to micromechanical devices

PUBN-DATE: March 12, 1997

INVENTOR-INFORMATION:

NAME	COUNTRY
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TREGILGAS, JOHN H	US
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ORENT, THOMAS W	US
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YOSHIHARA, HIDEKAZU	JP
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KNIFE, RICHARD L	US
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ASSIGNEE-INFORMATION:

NAME	COUNTRY
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TEXAS INSTRUMENTS INC	US
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APPL-NO: EP96114018

APPL-DATE: September 2, 1996

PRIORITY-DATA: US00313995P (September 1, 1995)

INT-CL (IPC): G02B026/08

EUR-CL (EPC): G02B026/08

ABSTRACT:

<CHG DATE=19970401 STATUS=O> An improved elastic member (24) for micromechanical devices (12). The micromechanical device (12) includes a stationary member (28) and a moving member (26) which are connected together by a elastic member (24). Because of repeated and frequent movement of the moving member (26), the elastic member (24) can become permanently flexed or deformed, resulting in poor operation of the device. Nitrided aluminum and non-aluminum alloys can be used to form a metal film from which the elastic member (24) is formed, either as polycrystalline films or as amorphous films. These alloys have isotropic elastic properties, high tensile strength and form smooth films when deposited. <IMAGE>

DID:

EP 762176 A2

DWPI

DERWENT-ACC-NO: 1998-011847

DERWENT-WEEK: 199839

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TITLE: Multilayered amorphous metallic thin film structure for EM wave shielding of electronic apparatus - has bonding area between amorphous metal films, up to 1- 90% area of which is distributed with adhesive agent

PATENT-ASSIGNEE: HIRAOKA SHOKUSEN KK[HRAS]

PRIORITY-DATA: 1987JP-0069179 (March 25, 1987)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
JP 08027547 A	January 30, 1996	N/A	006 C22C
045/00			
JP 2721128 B2	March 4, 1998	N/A	005 C22C
045/00			

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP08027547A	Div ex	1992JP-0294549	October 15, 1987
JP08027547A	N/A	1995JP-0026858	October 15, 1987
JP 2721128B2	Div ex	1992JP-0294549	October 15, 1987
JP 2721128B2	N/A	1995JP-0026858	October 15, 1987

JP 2721128B2 Previous Publ. JP 8027547 N/A

INT-CL (IPC): C22C045/00; H01F001/18 ; H01F010/16 ; H05B006/76 ; H05K009/00

RELATED-ACC-NO: 1989-051275;1994-053709 ;1994-130392 ;1995-150275 ;1995-150276 ;1996-136653 ;1996-144295 ;1997-422435 ;1997-422440 ;1997-422445 ;1998-404264 ;1998-451719

ABSTRACTED-PUB-NO: JP08027547A

BASIC-ABSTRACT: The laminate sheet contains a laminate layer(s) which consists of multi-ply amorphous metal thin coat layers.

The multi-ply amorphous metal thin coat layers are pref. joined integrally with an adhesive or a tacky adhesive; the adhesive or the tacky adhesive is electroconductive or semiconductive. The adhesive or the tacky adhesive is applied onto the surface of an amorphous metal thin coat layer in the form of lines or dots. The adhesive or the tacky adhesive is applied onto 1.0-90% of the surface of an amorphous metal thin coat layer. The laminate of the amorphous metal thin coat layers is integrally sandwiched between two flexible polymeric resin sheets. At least one of the amorphous metal thin coat layers consists of an amorphous metal thin coat and a plating layer of a conductive metal.

USE/ADVANTAGE - For electro-magnetic shielding, packagings, carpets, walls, etc. This laminate sheet is superior in flexibility, bending property, strength, shock absorbing property, etc.

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: L03 M13 V02 V04 X25

CPI-CODES: L03-G; M13-H04;

EPI-CODES: V02-A02A; V02-B; V04-U03; X25-B02B;

TIX:

Multilayered amorphous metallic thin film structure for EM wave shielding of

electronic apparatus - has bonding area between amorphous metal films, up to 1-90% area of which is distributed with adhesive agent

ABTX:

The laminate sheet contains a laminate layer(s) which consists of multi-ply amorphous metal thin coat layers.

ABTX:

The multi-ply amorphous metal thin coat layers are pref. joined integrally with an adhesive or a tacky adhesive; the adhesive or the tacky adhesive is electroconductive or semiconductive. The adhesive or the tacky adhesive is applied onto the surface of an amorphous metal thin coat layer in the form of lines or dots. The adhesive or the tacky adhesive is applied onto 1.0-90% of the surface of an amorphous metal thin coat layer. The laminate of the amorphous metal thin coat layers is integrally sandwiched between two flexible polymeric resin sheets. At least one of the amorphous metal thin coat layers consists of an amorphous metal thin coat and a plating layer of a conductive metal.

TTX:

MULTILAYER AMORPHOUS METALLIC THIN FILM STRUCTURE EM WAVE SHIELD ELECTRONIC APPARATUS BOND AREA AMORPHOUS METAL FILM UP AREA DISTRIBUTE ADHESIVE AGENT